



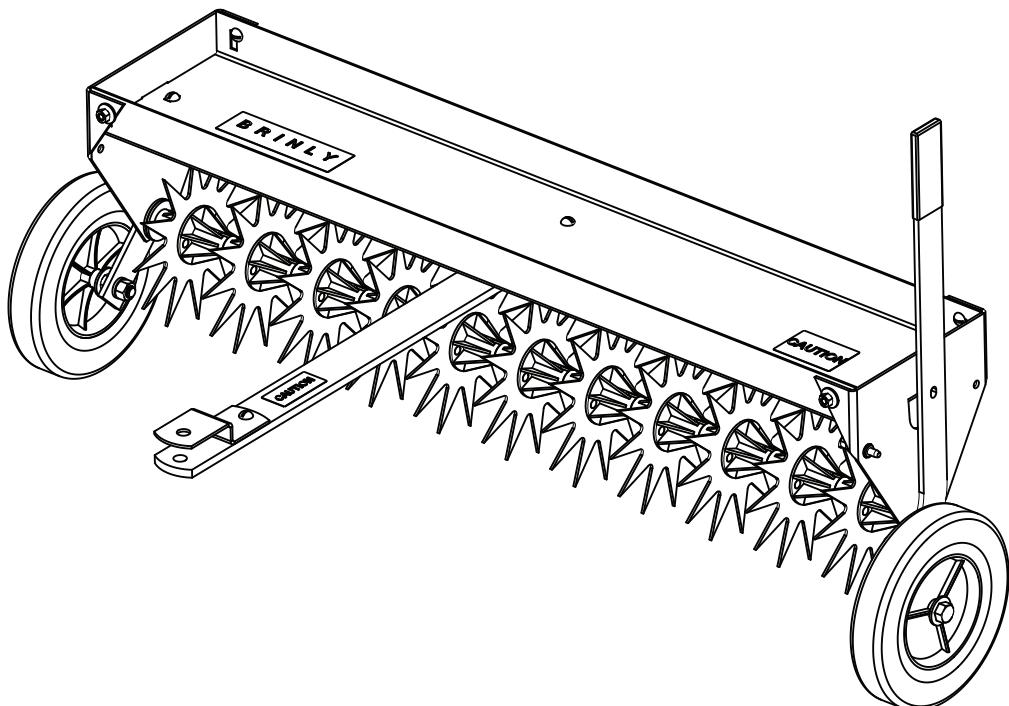
OWNER'S MANUAL

40" LAWN AERATOR

MODEL:

SAT-40 BH

- Assembly
- Installation
- Operation
- Repair Parts



For the latest product updates & setup tips:

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www.brinly.com

Important: This manual contains information for the safety of persons and property. Read it carefully before assembly and operation of the equipment!

L-1643BH-F

INTRODUCTION

CONGRATULATIONS on the purchase of your new Brinly-Hardy Lawn Aerator! Your lawn aerator is designed, engineered and manufactured to give you the best possible dependability and performance.

CUSTOMER RESPONSIBILITIES

Please read and retain this manual. The instructions enables you to assemble and maintain your lawn aerator properly. And please, always observe the "Safety" instructions.

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RECORD PURCHASE INFORMATION

Record your purchase information in the spaces provided below.

DATE OF PURCHASE: _____

COMPANY NAME: _____

COMPANY PHONE: _____

SERIAL NUMBER: _____



SAFETY

SAFETY LABELS AND NOTATION



This symbol will help to point out important safety precautions throughout this manual. It means - ATTENTION! BECOME ALERT! your safety is involved.



The safety labels shown in this section are placed in important areas on your product to draw attention to potential safety hazards.

On your product safety labels, the words DANGER, WARNING and CAUTION are used with the safety-alert symbol. DANGER identifies the most serious hazards.

The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol.

GENERAL NOTES (OPERATION)

Caution should be taken when towing and/or using any attachment. This attachment combined with the weight distribution, turning radius, and speed of towing vehicle can result in severe injury or death to operator, damage to towing vehicle, and/or attachment if not used properly. Follow all towing safety precautions noted in the towing vehicle owner's manual, including the following precautions:

- Ensure the combined weight of the towing vehicle (tow vehicle weight + operator weight) is greater than the maximum towed weight of attachment (empty attachment weight + weight of load).
- Do not exceed maximum towing capacity of towing vehicle.
- Do not exceed the maximum drawbar pull rating of the towing vehicle. Drawbar pull is the horizontal force required to pull the attachment (including weight of load).
- Only tow this product in the vehicle's tow mode/ speed setting or less than 5 mph. Do not exceed 5 mph.
- Towing speed should always be slow enough to maintain control. Travel slowly and use caution when traveling over rough terrain. Avoid holes, rocks and roots.
- Slow down before you turn and do not turn sharply. Use wide turning angles to ensure the attachment follows the path of the towing vehicle.
- Do not use attachment on steep slopes. A heavy load could cause loss of control or overturn attachment and towing vehicle. Additional weights may need to be added to your vehicle; check with towing vehicle manufacturer for recommendations.
- Reduce towed weight when operating on slopes.
- Keep all movement on slopes slow and gradual. Do not make sudden changes in speed, directions, or turning.
- If you start and stop suddenly on hills, you may lose steering control or the towing vehicle may tip. Do not start or stop suddenly when going uphill or downhill.
- Avoid uphill starts.
- Slow down and use extra care on hillsides.
- Turf conditions can affect vehicle stability.
- Use extreme caution while operating near drop-offs.
- Do not drive close to creeks, ditches and public highways.
- Watch out for traffic when crossing near roadways.
- Use care when loading or unloading the vehicle into a trailer or truck.
- The attachment can obstruct the view to the rear. Use extra care when operating in reverse.
- When reversing, carefully back-up straight to avoid jackknifing. Do not allow towing vehicle wheels to contact attachment draw bar. Damage could result.
- Stop on level ground, disengage drives, set the parking brake, and shut off engine before leaving the operator's position for any reason including emptying the attachment.
- Use this attachment for intended purpose only.
- This attachment is intended for use in lawn care and home applications. Do not tow behind a vehicle on a highway or in any high speed applications.
- Do not tow at speeds higher than the maximum recommend towing speed.
- Do not tow this product behind a motor vehicle such

as a car or truck.

- as a car or truck.
- Always wear substantial footwear. Do not wear loose fitting clothing that can get caught in moving parts.
- Keep your eyes and mind on your towing vehicle, attachment and area being covered. Do not let other interests distract you.
- Stay alert for holes and other hidden hazards in the terrain
- Keep the towing vehicle and attachment in good operating condition and keep safety devices in place. The towing vehicle and attachment should be stopped and inspected for damage after striking a foreign object. Any damage should be repaired before restarting and operating the equipment.
- Keep all parts in good condition and properly installed. Fix damaged parts immediately. Replace worn or broken parts. Replace all worn or damaged safety and instruction decals. Keep all nuts, bolts and screws tight.
- Do not modify the attachment or safety devices. Unauthorized modifications to the towing vehicle or attachment may impair its function, safety and void the warranty.

TOWING VEHICLE AND TOWING SAFELY

- Know your towing vehicle controls and how to stop safely. **READ YOUR TOWING VEHICLE OWNER'S MANUAL** before operating.
- Check the towing vehicle brake action before you operate. Adjust or service brakes as necessary.
- Stopping distance increases with speed and weight of towed load. Travel slowly and allow extra time and distance to stop.
- Use only approved hitches. Tow this attachment only with a towing vehicle that has a hitch designed for towing. Do not connect this attachment except at the approved hitch point.
- Follow the tow vehicle manufacturer's recommendations for weight limits for towed equipment and towing on slopes. Use counterweights or wheel weights as described in the towing vehicle operator's manual.
- Do not shift to neutral and coast downhill.
- Do not allow children to operate the towing vehicle.
- Do not allow adults to operate the towing vehicle without proper instruction or without having read the owner's manual.

PROTECT THOSE AROUND YOU

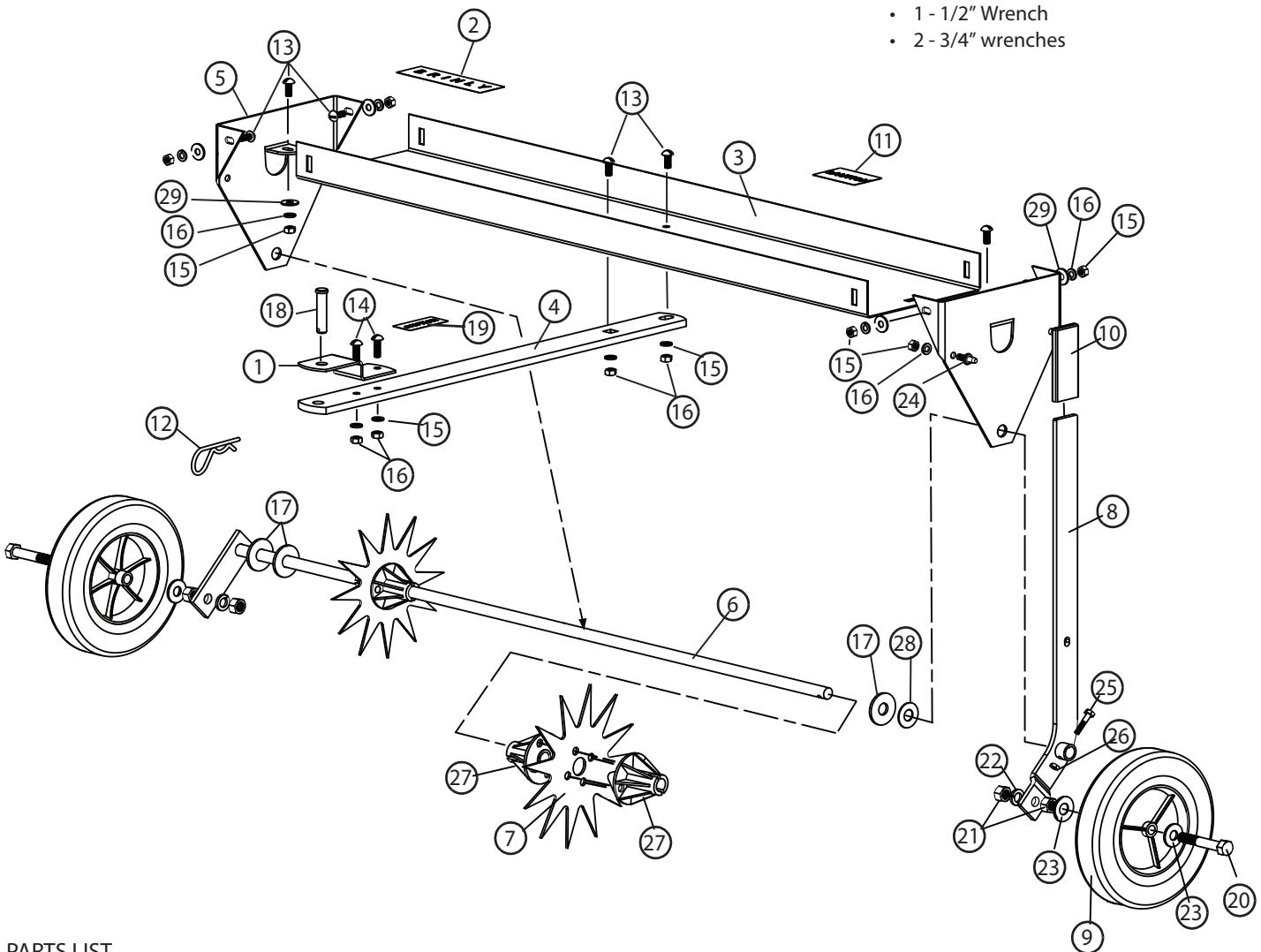
- Before you operate any feature of this attachment or towing vehicle, observe your surroundings and look for bystanders.
- Keep children, bystanders and pets at a safe distance away while operating this or any attachment.
- Use care when reversing. Before you back up, look carefully behind for bystanders.

KEEP RIDERS OFF TOWED ATTACHMENT AND TOWING VEHICLE

- Do not carry passengers.
- Do not let anyone, especially children, ride in/on this attachment, the towing vehicle or hitch bracket. Riders are subject to injury such as being struck by foreign object and/or being thrown off during sudden starts, stops and turns. Riders may also obstruct the operator's view resulting in this attachment being operated in an unsafe manner.

PARTS REFERENCE

EXPLODED VIEW



TOOLS REQUIRED FOR ASSEMBLY:

- 1 - Pair of work gloves
- 1 - Pair of pliers
- 1 - Screwdriver (flat blade)
- 2 - 7/16" Wrenches
- 1 - 1/2" Wrench
- 2 - 3/4" wrenches

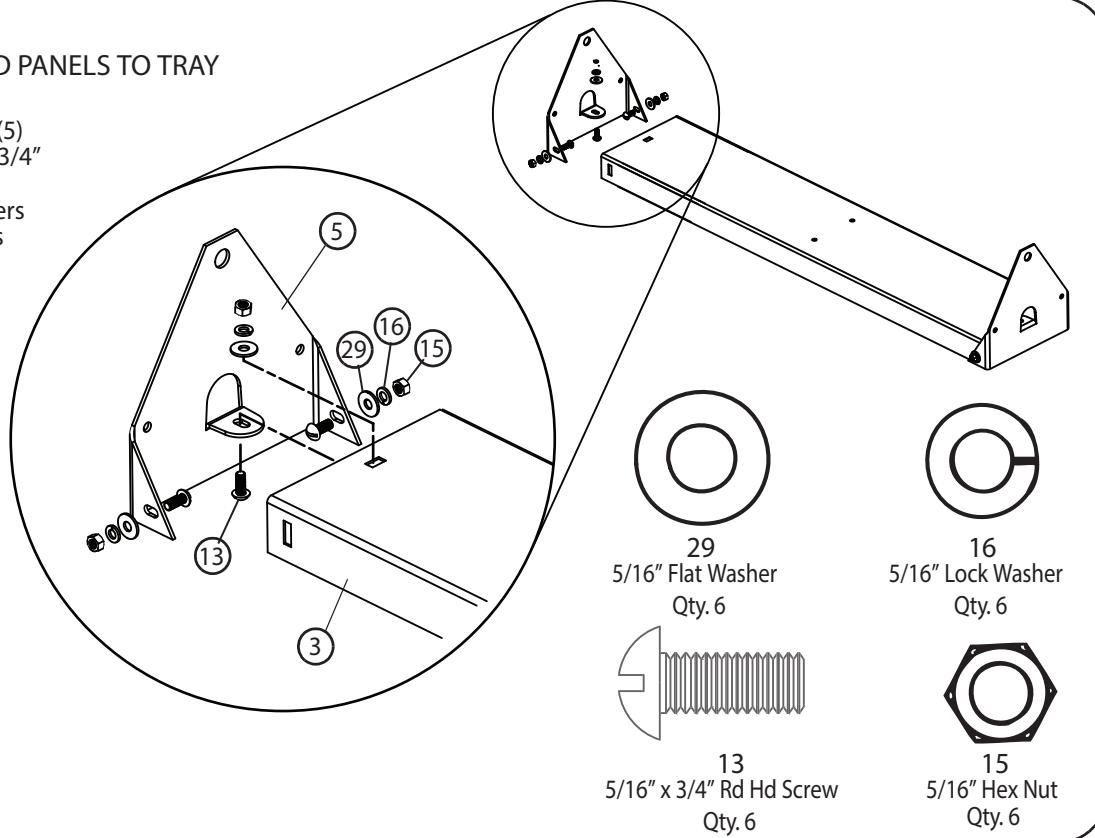
PARTS LIST

REF	PART NO.	DESCRIPTION	QTY.	REF	PART NO.	DESCRIPTION	QTY.
1.	R-821-10	Drawbar Clevis	1	15.	30M1000P	Hex Nut, 5/16"	11
2.	B-5925	Logo Decal	1	16.	40M1000P	Lock Washer, 5/16"	11
3.	B-5453-10	Tray	1	17.	B-5456	Flat Washer, 5/8" (think)	5
4.	B-3593-10	Drawbar	1	18.	B-3861	Drawbar Pin	1
5.	B-3593-10	End Panel	2	19.	B-3922	Caution Decal	1
6.	B-5832-10	Axle Assembly	1	20.	1M1648P	Hex Bolt, 1/2"x3"	2
7.	B-5423-10	Tine	11	21.	30M1600P	Hex Nut, 1/2"	4
8.	B-4888-10	Handle Assembly	1	22.	40M1600P	Lock Washer, 1/2"	2
9.	R-891	Wheel	2	23.	45M1717P	Flat Washer, 1/2"	4
10.	B-4867	Handle Grip	1	24.	B-3307-5	Transport Lock Pin	1
11.	R-1946	Caution Decal	1	25.	2M0820P	Hex Bolt, 1/4"x1-1/4"	1
12.	D-146P	Hairpin Cotter	1	26.	B-1673P	Hex Lock Nut, 1/4"	1
13.	20M1012P	Round Head Screw, 5/16"x3/4"	8	27.	B-5425	Spacer/Bearing, Tube	22
14.	20M1016P	Round Head Screw, 5/16"x1"	2	28.	B-4768	Flat Washer, 5/8" (thin)	2
				29.	45M1111P	Flat Washer, 5/16"	6

ASSEMBLY

Step 1. ATTACH END PANELS TO TRAY

1a) Attach the two End Panels (5) to the Tray (3) using six 5/16" x3/4" Rd Hd. Screws (13), 5/16" Flat Washers (29), 5/16" Lock Washers (16) and 5/16" Hex Nuts (15), as shown.



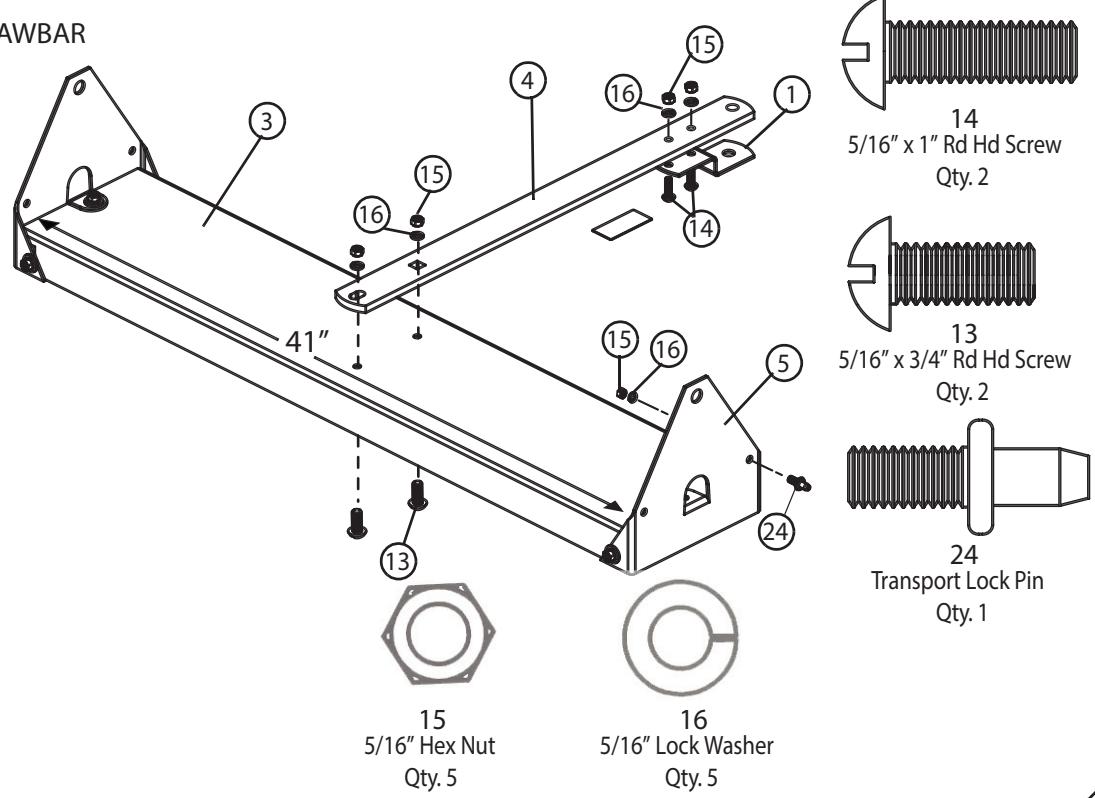
Step 2. INSTALL DRAWBAR

2a) Install Drawbar (4) to Tray (3) using two 5/16" x3/4" Rd Hd. Screws (13), 5/16" Lock Washers (16) and 5/16" Hex Nuts (15), as shown.

2b) Attach Clevis (1) to Drawbar using two 5/16" x 1" Rd Hd. Screws(14), 5/16" Lock Washers (16) and 5/16" Hex Nuts (15), as shown.

2c) Attach Transport Lock Pin (24) to End Panel (5) using one 5/16" Lock Washer (16) and 5/16" Hex Nut (15), as shown.

NOTE : The inside distance between the two end panels should be 41 inches to ensure proper installation.



ASSEMBLY

Step 3.

ASSEMBLE TINES TO AXLE

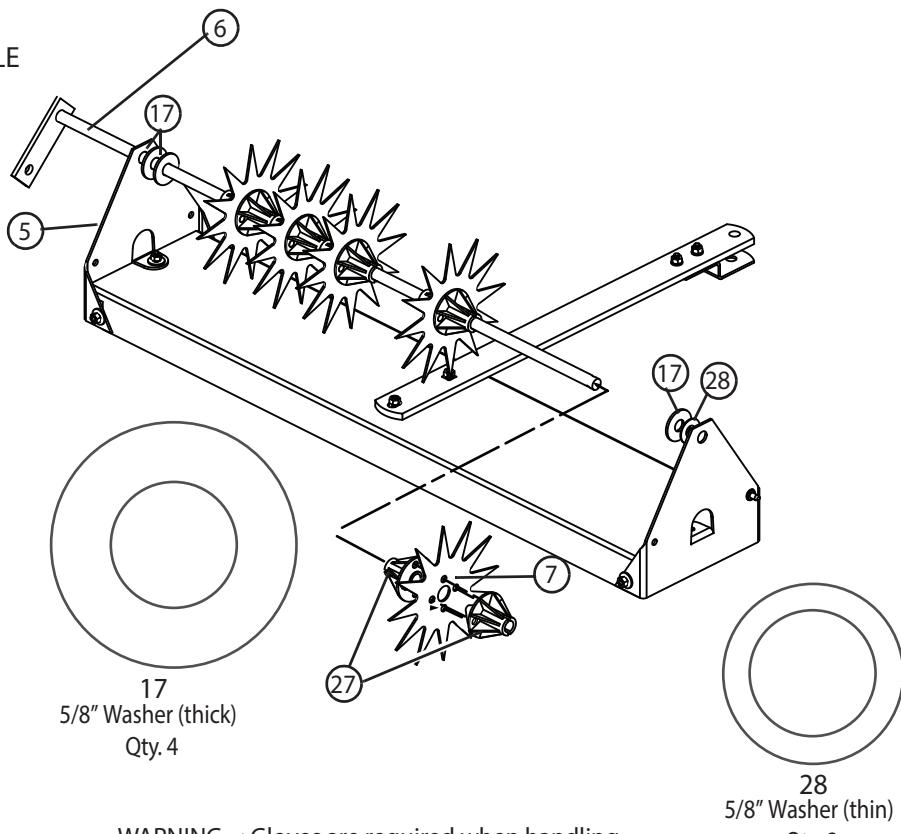
3a) Place a 5/8" Flat Washer, Thick (17) onto the Axle Assembly (6), then slide it through the hole in End Panel (5 right Side) and add another Flat Washer Thick (17) if needed.

3b) Position the eleven Tines (7) and twenty-two Spacer/Bearing Tubes (27) onto the Axle Assembly (6) as follows:

- Bearing, small end first
- Aerator Tine
- Bearing, large end first

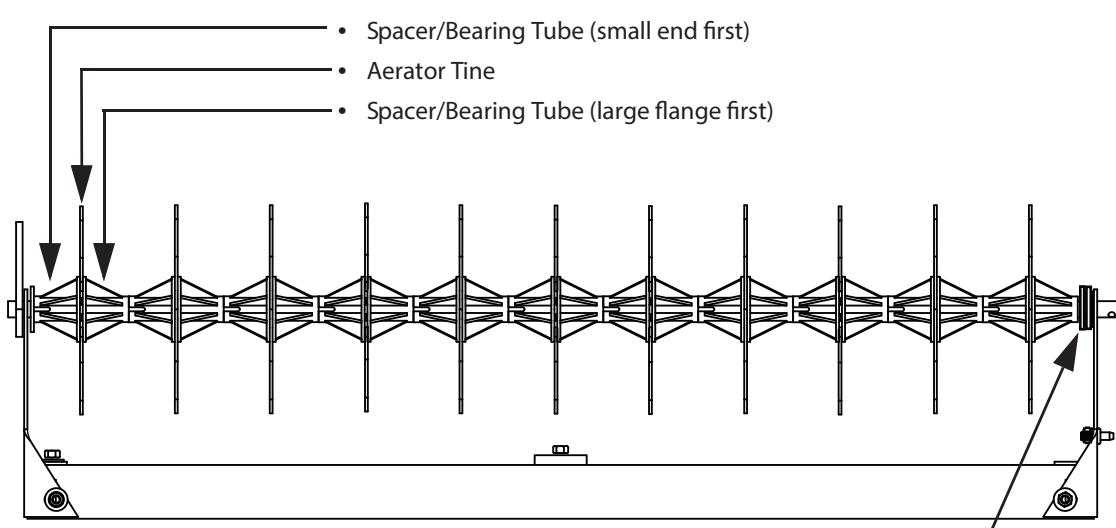
Note: Round projections on Spacer/Bearing flanges must fit into small holes in aerator tines and into two holes of opposite Spacer/Bearing

3c) Position one or two Washers (17 or 28) as needed to eliminate any side-to-side movement and push Axle Assembly (6) through hole in the left End Panel (5) as far as possible. See layout below



WARNING : Gloves are required when handling aerator tines. Tines have extremely sharp points. Use caution when handling.

Tine and Spacer/Bearing Tube Layout :



Note: Tines must not move from side to side inside opening of end panels. If looseness exists, use additional 5/8" Thick or Thin Washers (17 or 28) inside End Panel to eliminate any side movement.

ASSEMBLY

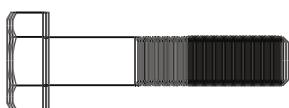
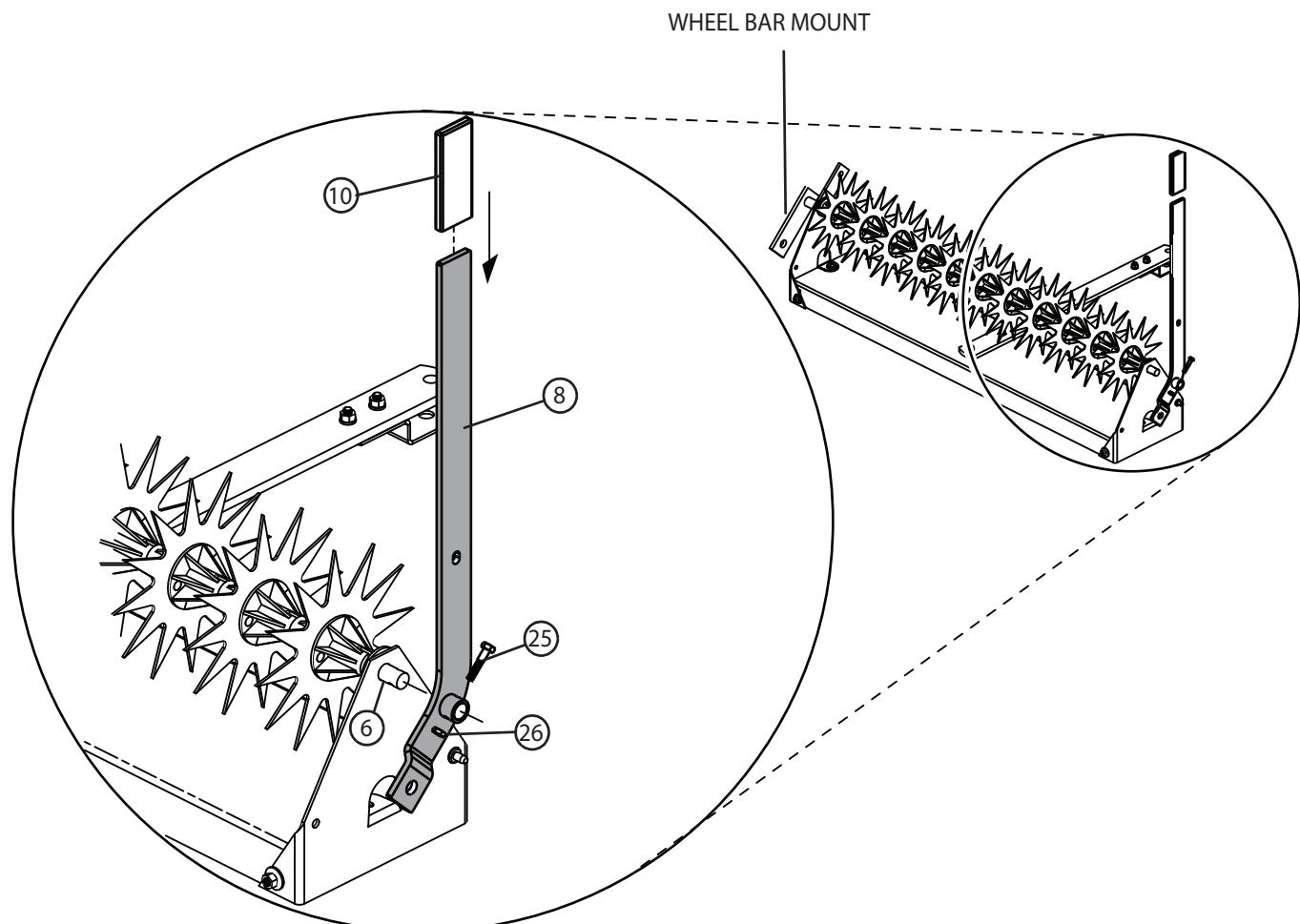
Step 4.

ATTACH HANDLE ASSEMBLY

4a) Attach the Handle Assembly (8) to end the of the Axle Assembly (6) by inserting one 1/4" x 1-1/4" Hex Bolt (25) though the hole in the end of the Axle Assembly and secure with 1/4" Hex Nut(26), as shown.

Note: The wheel bar mount on the Axle Assembly must be positioned downward, as shown, in order to properly attached the wheels.

4b) Slide the Handle Grip (10) on to the Handle Assembly (8).



25
Hex Bolt, 1/4 x 1-1/4"
Qty. 1



26
Hex Lock Nut, 1/4"
Qty. 1

ASSEMBLY

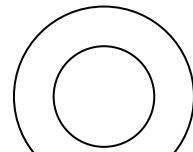
Step 5.

INSTALL WHEELS

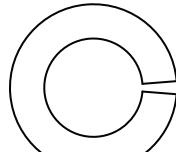
4a) Attach one Wheel (9) to the Handle Assembly (8) and the other wheel to the wheel bar mount on the Axle (6). Secure to each side using hardware in the following order:

- 1/2" x 3" Hex Bolt (20)
- 1/2" Flat Washer (23)
- Wheel (9)
- 1/2" Flat Washer (23)
- 1/2" Hex Bolt (21)
- 1/2" Lock Washer (22)
- 1/2" Hex Bolt

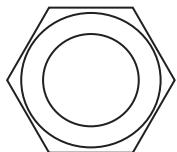
Note: Attaching wheel without all of the proper hardware will cause the wheel to wobble. Insure all hardware is used, see insets below.



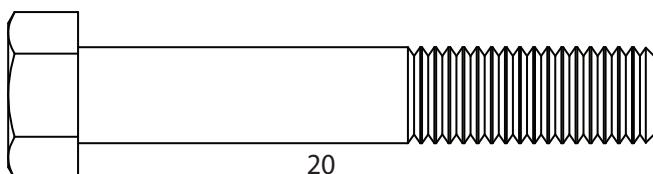
23
Flat Washer, 1/2"
Qty. 4



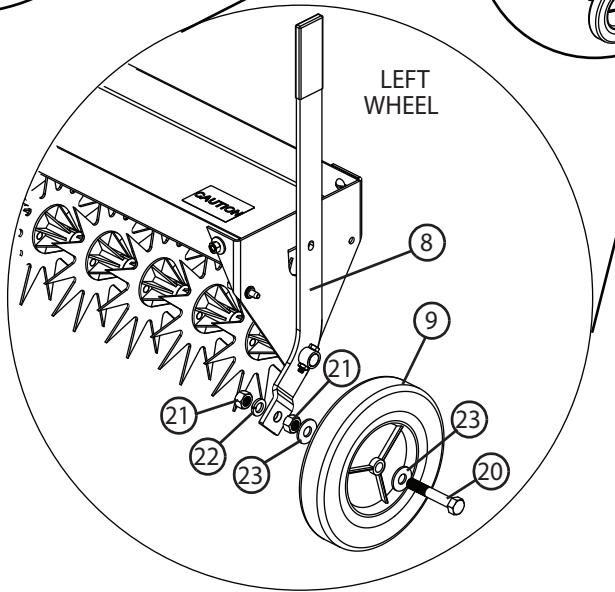
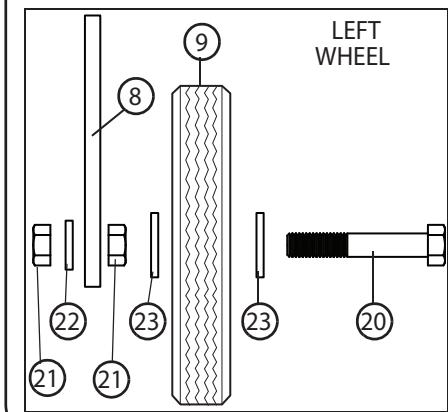
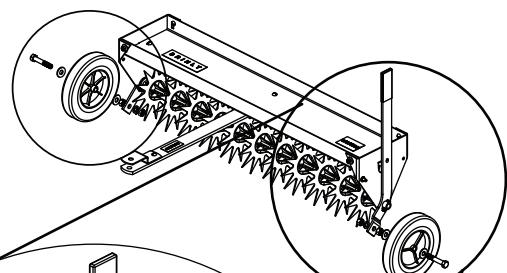
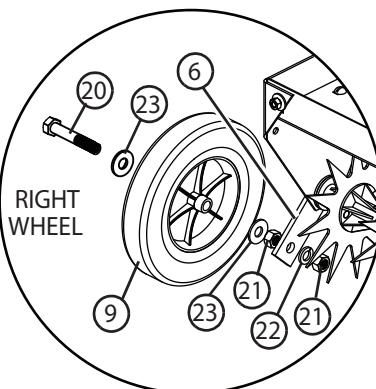
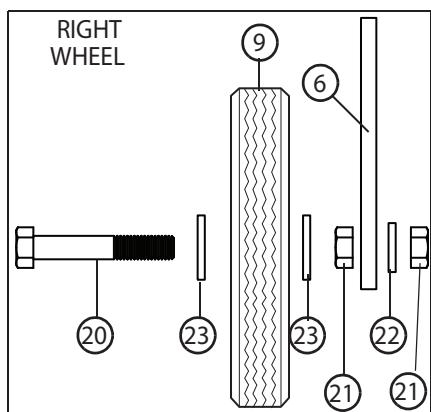
22
Lock Washer, 1/2"
Qty. 3



21
Hex Nut, 1/2"
Qty. 4



20
Hex Bolt 1/2" x 3"
Qty. 2



ASSEMBLY

Step 6.

MOUNTING & TRANSPORTING

6a) Attach Aerator to your towing vehicle using Drawbar Pin (18) and Hairpin Cotter (12) supplied.

6b) To place in Transport Position:

- Pull FORWARD on Handle Assembly (8).
- Pull out slightly and position over Transport Lock Pin (24). Aerator rests on wheels.

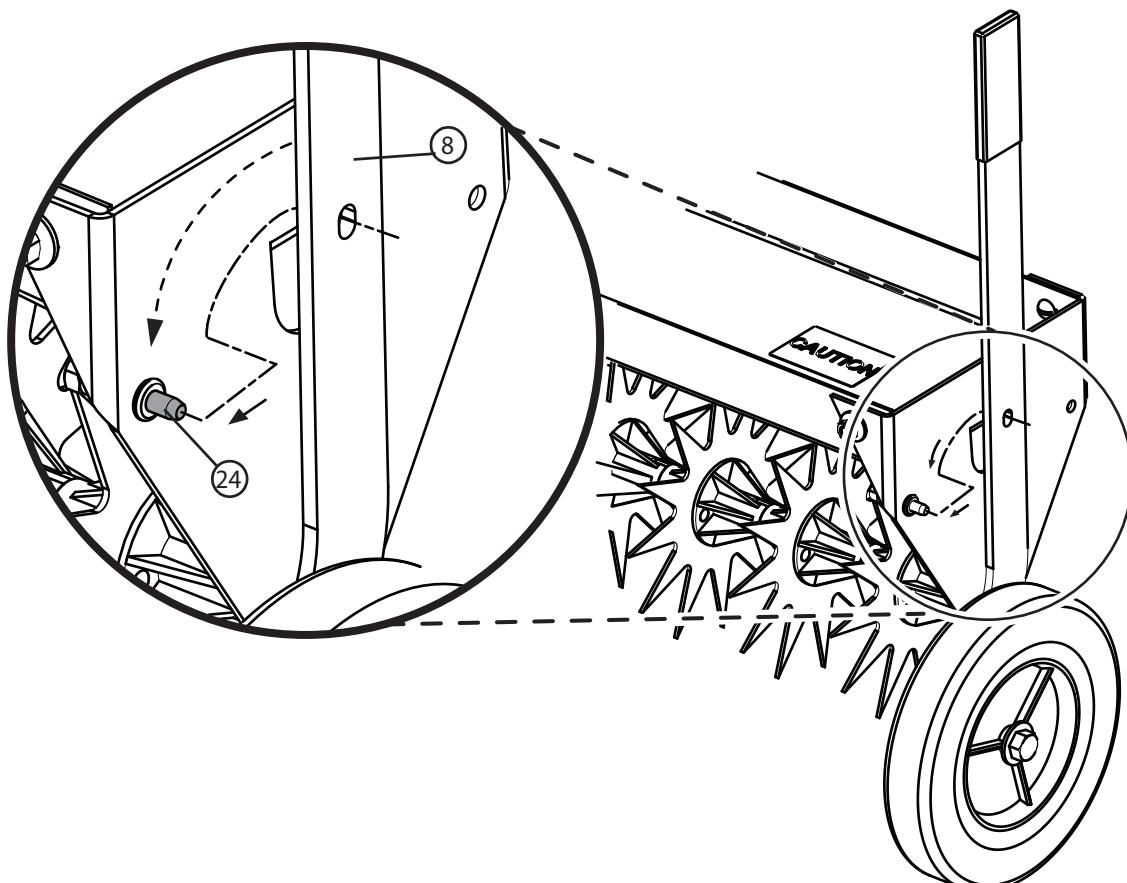
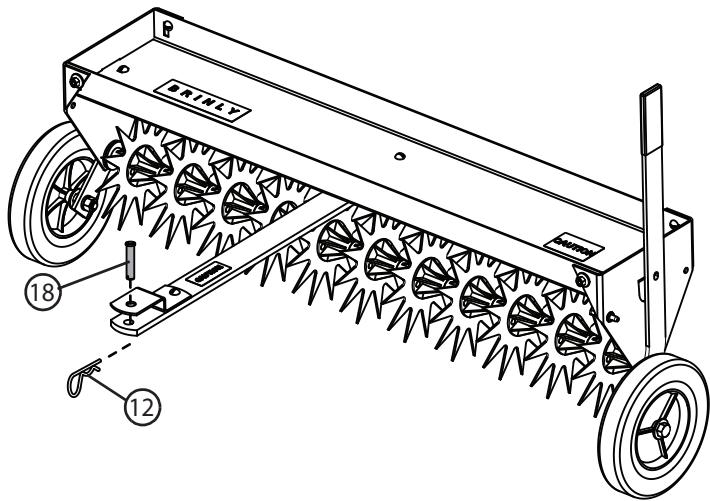


CAUTION: Avoid damage to tines. Engage the transport wheels when crossing concrete or asphalt driveways and walkways

6c) To place in Operating Position:

Pull OUT on Handle Assembly (releasing from Transport Position) and push Handle BACK.

Aerator should rest on Tines.



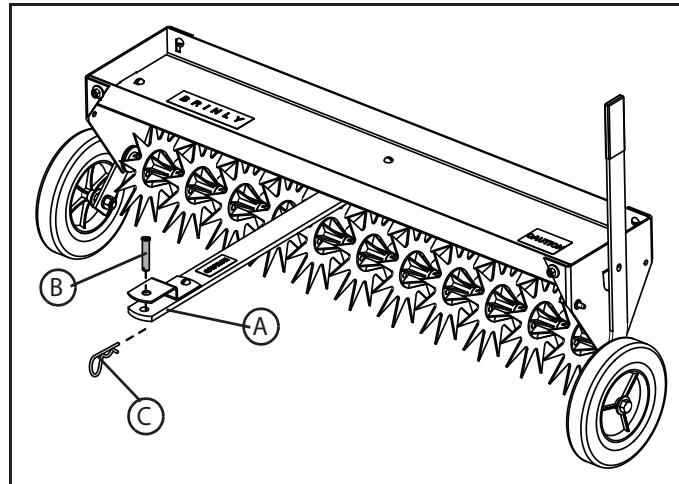
OPERATION

INSTALLING YOUR AERATOR



CAUTION: Avoid injury! Make sure feet and hands are clear of Tine Tips.

Avoid injury! Do not operate lift handle unless attachment is installed to towing vehicle



1. Park machine safely. (See towing vehicle manual).
2. Align aerator clevis (A) with towing machine drawbar.
3. Install drawbar pin (B) through clevis and machine drawbar. Secure drawbar pin with Hairpin Cotter (C).

REMOVING AERATOR



CAUTION: Avoid injury! Keep body parts away from under drawbar. Do not attempt to disconnect aerator from towing vehicle with weight on the tray.

1. Secure towing vehicle parking brake. (See towing vehicle manual).
2. Place Aerator in the Transport Position
3. Unload aerator tray.



CAUTION: Avoid injury! Keep body parts away from under drawbar. Do not attempt to disconnect aerator from towing vehicle with weight on the tray.

4. Remove cotter pin and drawbar pin.
5. Push aerator away from towing vehicle.
6. Install drawbar pin and cotter pin to towbar for storage.

OPERATING



CAUTION: Avoid injury! Avoid damage to tines. Engage the transport wheels when crossing concrete or asphalt driveways and walkways.

Excessive towed load can cause loss of control on slopes. Stopping distance increases with speed and weight of towed load.

Total towed weight must not exceed combined weight of towing vehicle, ballast and operator.

USING THE WEIGHT TRAY

The following maximum loaded weight capacity is the weight of the aerator plus the weight loaded in the tray.:

Model	Weight Capacity
SAT 40BH	42 lbs. (Empty)
	150 lbs (Max Load).
	192 lbs Max Towed Weight



CAUTION: Avoid injury! Keep body parts away from under drawbar. Do not attempt to disconnect aerator from towing vehicle with weight on the tray.

Towing capacity will vary with weight of towing vehicle and operator. Add the weight of your machine to operator weight to find the maximum capacity for towing.

DEPTH/PENETRATION

Weight should be added to the tray after installing to the towing machine. Weight should be secured by rope, straps, or other suitable means to contain the weight in the tray.

Weight tray maximum capacity = 150 pounds.

Moderate soil moisture is important for proper penetration. Extremely dry conditions will not permit penetration and may damage the tines. Extremely wet conditions will cause full penetration to the tine spacers. This condition will cut slots in the turf.

SPEED

The best operating speed is 3 mph or less.

FREQUENCY

Aeration is not accomplished in a single pass. It will normally take several passes over the lawn. Alternating the direction by 90° will improve the aeration effect.

The aerator may be used in an independent operation or may be used when mowing your lawn.

SERVICE

MAINTENANCE

After the first 30 minutes of use check all fasteners for tightness.

Tines are manufactured with galvanized steel to resist wear of abrasive soil. Striking objects can cause tines to curl or break. Contact our Customer Service Department to purchase replacement Tines (Part # B-5423).

Aerator is essentially maintenance free. However as with any steel product, it can rust. Apply a light coat of oil on tines after use to prevent rust. For rust appearing on painted surfaces, sand lightly and coat with enamel.

Periodically remove debris that builds up between tines.

Apply lubricating oil at each tine and bearing before use.

SPECIFICATIONS

Maximum Towing Speed 5 mph.

Maximum Load 150 lbs.

Empty Weight 42 lbs.

Maximum Towed Weight 192 lbs.

GETTING QUALITY SERVICE

Quality Continues with Quality Service

We provide a process to handle your questions or problems.

Follow the steps below to get answers to any questions you may have about your product:

1. Refer to your attachment and machine operator manuals.
2. In North America or Canada, call 1-877-728-8224 and provide product serial number (if available) and model number.

MANUFACTURER'S LIMITED WARRANTY

FOR



Pull Behind Accessories

The limited warranty set forth below is given by Brinly-Hardy Company with respect to new merchandise purchased and used in the United States, its possessions and territories.

Brinly-Hardy Company warrants the products listed below against defects in material and workmanship, and will at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been assembled, operated, and maintained in accordance with the Operator's manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster.

Normal Wear Parts or components thereof are subject to separate terms as follows: All normal wear parts or component failures will be covered on the product for a period of 90 days.

Parts found to be defective within the warranty period will be replaced at our expense. Our obligation under this warranty is expressly limited to the replacement or repair, at our option, of parts found to be defective in material and workmanship.

HOW TO OBTAIN SERVICE: Warranty parts replacements are available, ONLY WITH PROOF OF PURCHASE, through our Pull Behind Accessories Customer Service Department. Call 877-728-8224.

This limited warranty does not provide coverage in the following cases:

- a) Routine maintenance items such as lubricants and filters.
- b) Normal deterioration of the exterior finish due to use or exposure.
- c) Transportation and/or labor charges.
- d) The warranty does not include commercial and/or rental use.

No implied warranty, including any implied warranty of merchantability or fitness for a particular purpose, applies after the applicable period of express written warranty above as to the part as identified below. No other express warranty whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind Brinly-Hardy Co. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. Brinly-Hardy Co. shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

During the warranty period, the exclusive remedy is replacement of the part. In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. Alteration of safety features of the product shall void this warranty. You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use this product.

This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW STATE LAW RELATES TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

IMPORTANT: The Warranty period stated below begins with the PROOF OF PURCHASE. Without the proof of purchase, the Warranty period begins from the date of manufacture determined by the serial number manufacturing date.

WARRANTY PERIOD:

The warranty period for this Lawn Aerator is as follows: Steel Frame Parts - 3 Years, Tires and Tines are normal wear parts - 90 days.